

## Catalyst Deactivation in Selective Oxidation at Low Temperature

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Selective Oxidation especially at low temperature is an important for many reactions such as H<sub>2</sub>S removal from biogas, Methyl Oleate epoxidation etc. The catalysts that use in these reactions are metal oxides. The reaction mechanism is Mars – Van – Krevelen. The main cause of catalyst deactivation is oxygen vacancy formation. IT was found that the interaction between active metal and support, the method to synthesize catalyst and doping metal can retard oxygen vacancy formation.

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